XTAR CORPORATION
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FAX 6192714443

[redacted]

May 20, 1988

Dear [redacted]

Thank you for your interest in XTAR and our family of real-time PC based graphics products. XTAR is offering unmatched price / performance in both our array processors and our graphics boards. We have two graphics products, the PG-1000 Graphics Board and the newly announced PG-2000 Graphics Board. The PG-1000 offers a 640 x 400 resolution, 16 colors and can display 10,000 flat shaded polygons per second and fill those polygons at 100 million pixels per second. The PG-1000 is priced at $1,995. We also have a complete line of array processors that range from 10 MFLOPS to 20 MFLOPS. The PG-2000 Graphics Board is the fastest PC AT-based graphics board available on the market today. I am confident that the PG-2000 Graphics Board used in conjunction with the AP-2020 will outperform anything else available on the PC AT. The FALCON-PC Graphics System uses the PG-2000 and AP-2020 to display 30,000 flat shaded polygons per second, fill the polygons at 160 million pixels per second, and maintain a 30 frame per second update rate for real-time animation.

XTAR Corporation has been delivering real-time graphics to military and prime contractor customers for the past five years, including Rediffusion Simulation, Hughes Aircraft, Sanders Associates, Litton, SRL, Wright-Patterson AFB and many others. We are now announcing the FALCON-PC Graphics System the highest performance PC based graphics systems available on the market today.

The FALCON-PC consists of the PG-2000 Graphics Board, the AP-2020 Array Processor, a 19" color monitor and 3DView III software toolset all designed specifically for your PC AT or a compatible. Below are the key features for the FALCON-PC Graphics System:

Display 30,000 flat shaded polygons per second.
Fill polygons at a rate of 160 million pixels per second.
1024 x 1024 or 1024 x 768 resolution (switchable).
256 colors from a palette of 16.8 million.
Double buffered frame buffer.
20 MFLOPS array processor, 32-bit IEEE format.
Transparency, perspective, hidden surface removal and an AutoCAD interface.
Direct pixel address for imaging/mapping applications.

The complete system cost is $19,095. The FALCON-PC offers unmatched price/performance for mission planning, simulation, part-task training, mapping, target acquisition and other high performance applications.

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We have two graphics boards; the PG-1000 which offers 640 x400 resolution, 16 colors and can display and manipulate 10,000 flat shaded polygons per second. The graphics board itself is priced at $ 1,995. The new PG-2000 graphics board has a higher resolution (1024 x 768 or 1024 x 1024), 256 colors and can display 30,000 flat shaded polygons per second. The PG-2000 is priced at $5,995.

XTAR has also recently introduced the GenLOCK board that will enable you to lock to an external video sync source and overlay graphics, then output to video tape for analysis or presentation. The GenLOCK board works with either the PG-1000 or PG-2000 Graphics Board. The GenLOCK board's list price is $1,500.

Our OEM discount is very aggressive. For all of our products the discount schedule is the same:

Units	Discount Percentage
1	0 %
2 - 5	7 %
6 - 10	14 %
11 - 20	21 %
21 - 40	28 %
41 - 60	35 %
60 +	As Negotiated

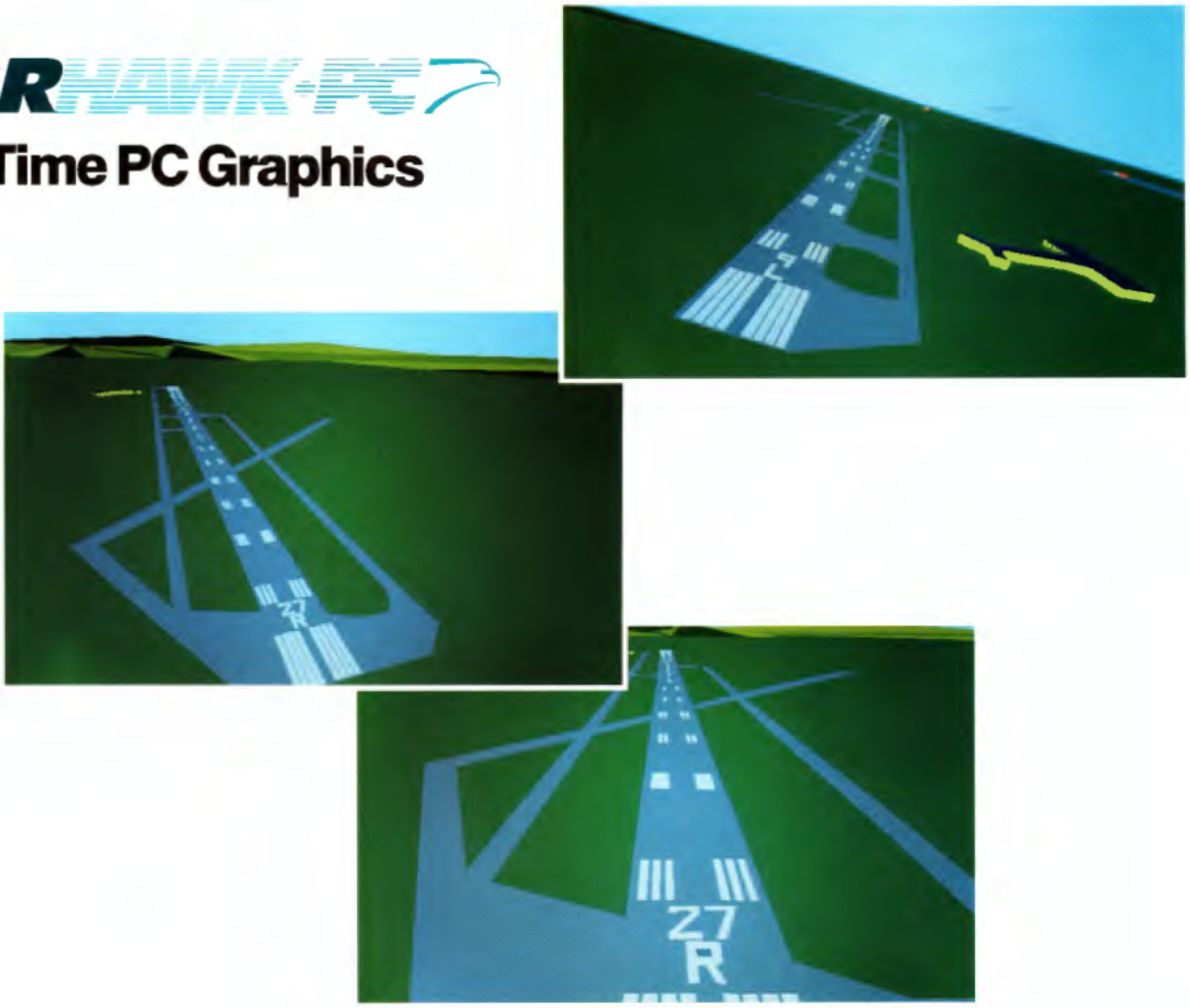
I believe we can offer you excellent products that are reliable, state-of-the-art technology and at a reasonable price. We would like to help you be successful, If you would like to see a copy of our OEM contract, I will be happy to send you a copy for your review. If you have any additional questions, feel free to contact me directly.

Sincerely,

Rik Thistle
Director of Marketing and Sales

XTAR HAWK-PC

Real-Time PC Graphics



The HAWK-PC was designed for unmatched PC AT based graphics speed, price and performance for military and industrial applications, including mission planning, part-task training, flight simulation, target acquisition, mapping and many others.

Graphics Functionality.

If your application requires real-time interaction, the HAWK-PC can give you all the graphics power needed for realistic simulation or training, on a PC AT or compatible!

The graphics performance includes:

- Polygon fill at an average rate of over 100 million pixels per second.
- Display and transform 10,000 polygons per second.
- 30 screen updates per second.

Standard Features.

Some of the standard features include: Perspective views, hidden surface removal and transparency for the generation of clouds or fog in flight simulation. The system comes with 16 colors from a palette of 4096, a resolution of 640 x 400, and pixel dithering for thousands of color shades and patterns.

Real-Time. Low Cost.

The HAWK-PC Graphics System offers you unmatched graphics performance at a very low cost. XTAR's PC based graphics allow you to extend your applications to real time, while getting more for your budget.

The HAWK-PC delivers real-time PC AT based graphics for less than you'd think.

Fast, functional, and cost effective.

That's the HAWK-PC.

HAWK-PC System.

The HAWK-PC Graphics System consists of the PG-1000 Graphics Board, 3DView software, a 13" color monitor, and the Weitek designed, XTAR manufactured SME-7100 array processor.

PG-1000 Graphics Board.

The PG-1000 is a high performance graphics card that uses the XTAR proprietary GMP and VSR chip set technology. The GMP is recognized as the fastest graphics chip of its kind available, and is used by many of the top military prime contractors for various applications.

The PG-1000 fills polygons at an average rate of over 100 million pixels per second for real-time visualization. It can display 10,000 flat shaded polygons per second, with a screen update of 30 frames per second. The fast animation is helped by a double buffered frame buffer; as one scene is being displayed to the user, the new scene is being generated in the second buffer, allowing for a smooth transition from scene to scene.

3DView Software.

XTAR's 3DView software offers unparalleled graphics functionality on a PC. 3DView gives you all the graphics capability necessary to clip, transform, manipulate and display a 3D data base in real time.

Array Processor Power.

The XTAR SME-7100 was designed by Weitek, but is manufactured by XTAR Corp. for continuing availability and reliability. The SME-7100 offers you 32-bit floating point precision and 8 MFLOPS of array processing power at a very reasonable cost.

Optionally, the SME-7100 will support a scientific library developed by QTC (Quantitative Technology Corp.). It includes 195 microcoded scientific and engineering subroutines that make full use of the SME-7100.

Special Engineering.

XTAR also offers special engineering support to meet demanding military and industrial needs through XTAR Design Services, Inc., a wholly owned subsidiary of XTAR Corp.

XTAR CORPORATION

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XTAR FALCON-PC Graphics System

XTAR Corporation now offers the highest performance PC-based graphics system available, the FALCON-PC. Real-time graphics on your PC AT, with high resolution, 256 colors and all this functionality for a lot less than you'd expect. The FALCON-PC will give you the winning edge.

GRAPHICS FUNCTIONALITY.

- 1024 x 768 resolution (standard) or 1024 x 1024 (optional).
- 256 colors from a palette of 4096(standard) or 16.8 million (optional).
- 19" 60 Hz Non-Interlaced color monitor.
- 30,000 flat-shaded polygons per second.
- Fills polygons at 160 million pixels per sec.
- Double-buffered frame buffer.

The FALCON-PC Graphics System includes the XTAR PG-2000 Graphics Board, the AP-2020 array processor, 3DView III software and a 19" color monitor. The system is designed for your PC AT or a compatible. It offers unmatched graphics functionality with a price/performance advantage that will enable you to meet your program specifications while maintaining your budgetary requirements.

PG-2000 GRAPHICS BOARD.

The PG-2000 is capable of displaying 30,000 flat-shaded polygons per second. The PG-2000 can fill polygons at an average rate of over 160 million pixels per second, and update the graphics screen at 60 frames per second for real-time animation.

AP-2020 ARRAY PROCESSOR.

The AP-2020 offers 20 MFLOPS of 32-bit number crunching power designed to complement the PG-2000's graphics capabilities. The AP-2020 is a high speed, two-board floating point engine which makes it possible to use the PC AT or compatible in computation-intensive applications such as image processing, seismic analysis, simulation and animated graphics.

3DVIEW III SOFTWARE.

XTAR's 3DView is a software toolset that aids the development and manipulation of graphics databases thru a series of graphics subroutines. The FALCON-PC 3DView III software facilitates 2D and 3D computations such as matrix multiplication, clipping, perspective and others. It also allows the display of multiple programmable viewports simultaneously, supports hidden surface removal and hierarchical data bases.

The FALCON-PC Graphics System has the high performance graphics capability, the resolution and price to address even the most demanding graphics requirements in part-task training, flight simulation, mission planning, target acquisition, and other real-time applications.

For more information, contact:

XTAR Corporation
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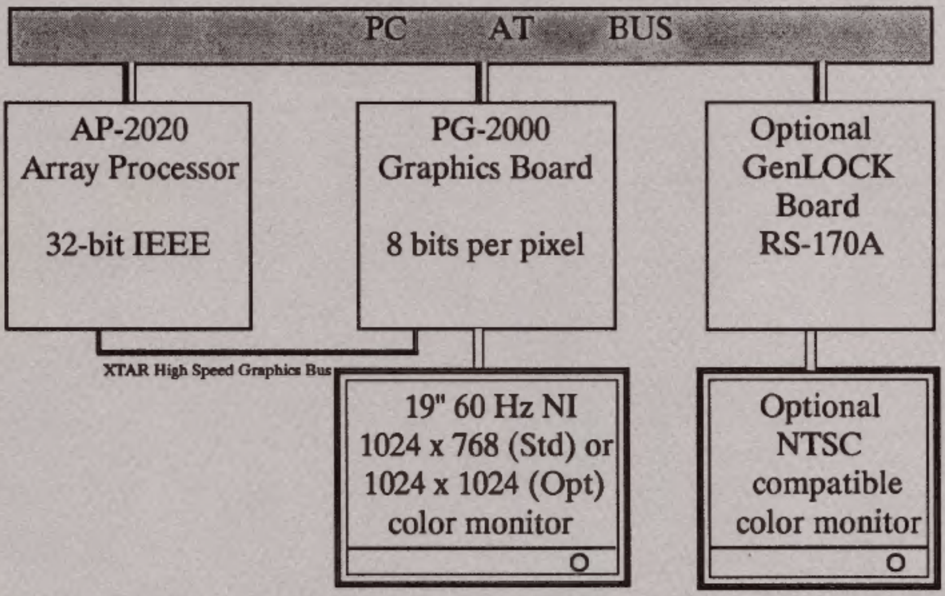
Product Specifications



Ordering Information:

To order the correct product configuration for your application, please specify per the following format.

Product — **Color Palette** — **AP Memory** — **Resolution**

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PRODUCT:	FL	FALCON-PC Graphics Sub-system
	FP	FALCON-PC Graphics Sub-system + PC AT
	PG	PG- 2000 Graphics Board
	AP	AP-2020 Array Processor
	GL	GL-1000 GenLOCK Board
COLOR PALETTE:	4096	4096 color palette
	16M	16.7 Million color palette
AP MEMORY:	64K	64K AP Data Memory
	256K	256K AP Data Memory
RESOLUTION:	768	1024 X 768
	1024	1024 X 1024
	OL	OverLay Board for GL-1000

For more information, contact:

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PC AT is a registered trademark of IBM Corp.

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XTAR SME-7100 AP

Product Data Sheet

The XTAR SME-7100 array processor is hardware and software compatible with the Weitek SME-7100 and offers you unmatched price / performance for a 32-bit array processor. The SME-7100 is a high-speed two board floating point engine which makes it possible to use the PC AT or compatible in computation - intensive applications such as image processing, seismic analysis, simulation and animated 3D graphics.

GRAPHICS ACCELERATOR.

As a component in XTAR's HAWK-PC Graphics System, the SME-7100 acts as a graphics accelerator to provide real-time three-dimensional transformations (rotation, translation, scaling, clipping and perspective), and the painting of realistic solid images with hidden surface removal.

SCIENTIFIC LIBRARY.

An option with the SME-7100 is the QTC (Quantitative Technology Corporation) Scientific Library. It includes 195 microcoded scientific and engineering subroutines that make full use of the SME-7100's floating point capabilities.

The Scientific Library is designed to allow customization for specific applications without the necessity of tedious hand-coding of basic algorithms.

KEY GRAPHICS FEATURES.

- Real time 3D hardware transformations (rotation, translation, scaling and perspective.
- 3D flat shaded polygons manipulated in real-time at 30 frames per second.

SOFTWARE TOOLSET.

To enable you to develop real-time graphics using the SME-7100 and PG-1000, XTAR developed 3DView II software. 3DView II gives you the toolset functionality necessary to fully utilize the SME-7100 and PG-1000 graphics power. Some of the graphics capabilities include direct pixel access for imaging applications, perspective for more realistic scenes, Movement Learn Mode for automatic fly throughs, and SMARTREE which generates the required tree structure for hidden surface removal.

INTEGRATED SYSTEMS.

The SME-7100 array processor is fully integrated with the PG-1000 Graphics Board and XTAR's 3DView software to form the HAWK-PC Graphics System. The fastest PC AT graphics functionality available. The HAWK-PC can fill polygons at an average rate of 100 million pixels per second, and display and manipulate 10,000 polygons per second.

The HAWK-PC system has been used for a wide variety of military and industrial applications including mission planning, part-task training, target acquisition, flight simulation, CAD, robotics, seismic analysis and others.

For further information, contact:

XTAR Corporation
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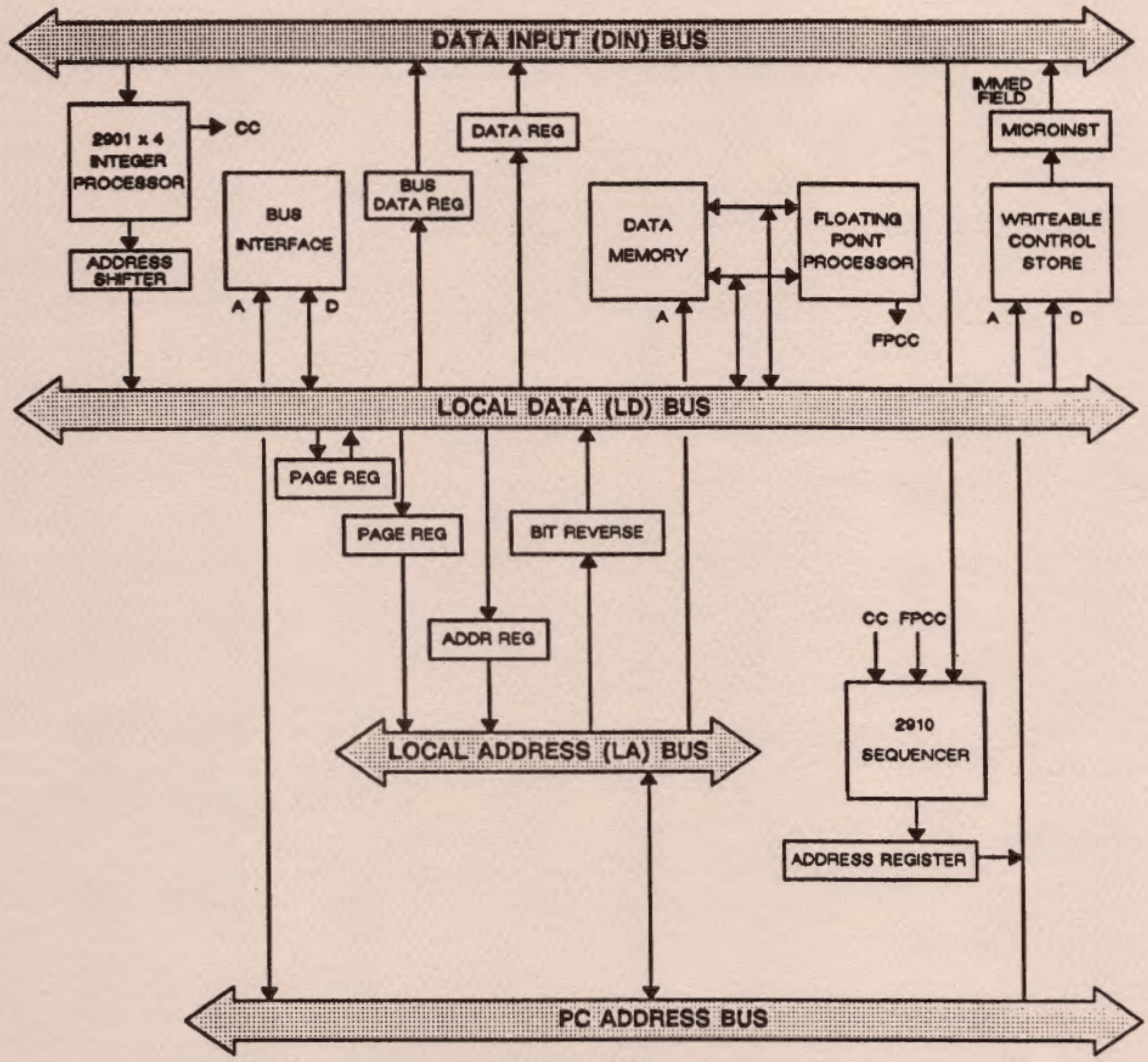
Product Specifications



Array Processor Block Diagram

For more information, contact:

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PC AT is a registered trademark of IBM Corp.

XTAR PG-1000 Graphics Board

Product Data Sheet

XTAR's PG-1000 Graphics Board offers unmatched graphics performance. The use of the GMP and VSR chip set technology makes possible polygon fills at an average rate of over 100 million pixels per second, and the display and manipulation of 10,000 polygons per second.

STANDARD FEATURES.

The basic graphics features include 16 simultaneous colors, 640 x 400 resolution, and double buffering for smooth animation.

In addition, the PG-1000 offers pixel dithering for thousands of color shades and patterns, hidden surface elimination and transparency for realistic fog and cloud simulation.

REAL-TIME APPLICATIONS.

The PG-1000 enables real-time graphics applications such as part-task training, C3I, mission planning, flight simulation, imaging, mapping and battle field management, to be easily and efficiently developed on an inexpensive PC AT or compatible.

The PG-1000 Graphics Board takes just one slot in your PC AT, thereby saving you valuable space and allowing for more options.

PC-BASED GRAPHICS POWER.

Coupled with the PG-1000 is the XTAR manufactured SME-7100 array processor. The SME-7100 is a 32-bit floating point array processor that executes at a rate of 8 million floating point instructions per second (MFLOPS).

3DVIEW II SOFTWARE TOOLSET.

3DView II used in conjunction with the PG-1000 and SME-7100 enables real time graphics development quickly on a PC AT. Some of the graphics capabilities include direct pixel access for imaging applications, perspective for more realistic scenes, Movement Learn Mode for automatic fly throughs, and SMARTREE, which generates the required tree structure for hidden surface removal.

HAWK-PC GRAPHICS SYSTEM.

Integrate the PG-1000 Graphics Board, the SME-7100 array processor and 3DView II software and you'll have the HAWK-PC Graphics System. The most cost effective real-time graphics system available on the market today.

HIGH PERFORMANCE, LOW COST.

The family of PC-based graphics systems from XTAR offers unmatched graphics performance at a very low cost. Other graphics terminals and workstations have similar graphics functionality but at two or three times the price. XTAR's PC-based graphics allows you to extend your applications to real-time, while getting more for your budget.

The PG-1000. Real-time Graphics for a PC.

For more information, contact:

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Product Specifications

Display List:

16 K words x 16 bits of Display List Memory on-board. Organized as (4) 64 K bit (16K x 4 DRAMs). DRAM refresh accomplished automatically by the GMP.

Display list RAM is expandable to 64 K words.

Horizontal Frequency:

Interlaced: 15.699 Hz Non-Interlaced: 30.637 kHz

Vertical Frequency:

Interlaced: 59.919 Hz Non-Interlaced: 60.420 kHz

Output Video Options:

RGBI (TTL)
RrGgBb (TTL {IBM enhanced monitor})
RGB Analog (IBM Professional 400 series)
RGB Analog (XTAR Monitor timing)
SYNC polarity (pos - VSYNC/HSYNC, neg - Csync)

Drawing Rates:

	Polygon Fill (pixels/sec)		Vector Draw (pixels/sec)	Screen Updates (per second)	
Interlace	Burst	Average		Polygons	Vectors
Yes	114 M	106.0 M	8.7 M	389	30.9
No	100 M	84.0 M	6.4 M	286	20.8

Optional Toolkit Software Features:

GMP Display List Program editor and assembler / disassembler
GMP software debugger
On-screen polygon editor
Dithering / Transparency Pattern editor

For more information, contact:

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XTAR PG-2000 Graphics Board

Product Data Sheet

The PG-2000 is the fastest PC-based graphics board available on the market today. If your application demands real-time interaction then the PG-2000 Graphics Board, used in conjunction with the XTAR AP-2020 array processor, will give you unmatched graphics performance on a PC AT or a compatible. The PG-2000 is an integral part of the XTAR FALCON-PC Graphics System, and can display 30,000 flat shaded polygons per second. Then fill those polygons at a rate of 160 million pixels per second for real-time animation. The PG-2000 is based on the XTAR patented GMP chip set, the pioneer in real-time graphics chip technology.

STANDARD FEATURES.

The PG-2000 graphics features include 256 simultaneous colors from a palette of 4096 (std) or 16.7 M (opt), 1024 x 768 resolution (std) or 1024 x 1024 (opt) and double buffered frame buffer for real-time animation.

In addition, the PG-2000 Graphics Board offers 8 bit planes and direct pixel addressability for mapping and imaging applications.

REAL-TIME APPLICATIONS.

The PG-2000 offers unmatched performance on a PC AT or compatibile for applications requiring real-time graphics. For simulation and training, mission planning, battle field management, robotics, and geophysical applications the PG-2000 in combination with the AP-2020 delivers graphics performance for a fraction of the cost of graphics workstations.

FALCON-PC GRAPHICS SYSTEM.

The FALCON-PC, consisting of the PG-2000 Graphics Board, the AP-2020 Array Processor, a 19" color monitor and 3DView III software toolset, is the most cost effective real-time graphics system available.

The AP-2020 Array Processor delivers 20 Million Floating Point Operations Per Second (MFLOPS) using the 32-bit IEEE format. It takes only two PC AT slots.

XTAR's 3DView III software toolset allows you to easily design your data base and objects within it. 3DView III allows full 4 x 4 matrix manipulation, including generation, concatenation, stacking, etc. It features a hierarchical data base, with the capability to display multiple viewports simultaneously.

The toolset software allows intra-object hidden surface removal using object sorting via a BSP algorithm.

PRICE / PERFORMANCE LEADERSHIP.

The PG-2000 and the complete FALCON-PC system allow you to get more for your budget and still deliver top notch real-time graphics. XTAR Corporation is on the leading edge of PC based real-time graphics development and offers a complete family of ultra-high performance graphics systems for the PC AT.

For more information, contact:

XTAR Corporation
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San Diego, CA 92131
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Product Specifications

Display List:

64K words x 16 bits of Display List Memory on-board.

Horizontal Frequency:

50 KHz with NEC Multisync® XL monitor, 15.732 KHz in interlace mode with NTSC monitor (interlace with GenLOCK board only).

Vertical Frequency:

60 Hz with NEC Multisync® XL monitor, 59.94 Hz in interlace mode with NTSC monitor (interlace with GenLOCK board only).

Video Output Options:

RS-343A Standard
Composite sync on green
Composite sync on separate BNC cable

Video Frequency:

70 MHz with 1024 x 768 monitor
14.31818 MHz with NTSC compatible interlaced monitor

Resolution Options:

1024 x 768	Standard
1024 x 1024	Optional
640 x 480	Optional with GenLOCK board

Drawing Rate:

	Non-Interlaced (1024 x 768)	Interlaced (640 x 480)
Polygon fill pixels/sec	160 million	160 million
Line draw pixels/sec	7.4 million	7.4 million
Full screen updates/sec	203	520

For more information, contact:

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Multisync is a registered trademark of NEC

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XTAR AP-2000 Array Processor

Product Data Sheet

The XTAR AP-2000 series Array Processor offers you all the power required for those computation-intensive applications, but at a low price. There are two versions of the AP-2000 series; the AP-2010 which is a 10 MFLOPS 32-bit array processor, and the AP-2020 which is a 20 MFLOPS 32-bit array processor. Both APs offer unmatched price/performance.

The AP-2000 is a high speed floating point engine that allows you to use the PC AT or a compatible for computation-intensive applications such as simulation, image processing, seismic analysis and animated 3D graphics.

GRAPHICS ACCELERATOR.

As a component of the XTAR FALCON-PC Graphics System, the AP-2020 is used as a graphics accelerator to provide real-time 3D transformations and high-performance painting of realistic objects with hidden surface removal. Using the AP-2020, the FALCON-PC system can display and manipulate 30,000 flat shaded polygons per second.

KEY ARRAY PROCESSOR FEATURES.

In addition to the number crunching capabilities, the AP-2000 series offers data memory of 64K x 32 standard and up to 256K x 32. And program memory of 8K x 96 up to 64K x 96.

The AP-2000 array processor features an IEEE 32-bit format, an over-the-top connector, and is 100 % software compatible with the Weitek SME-7100, but two and a half times faster. The AP-2000 also offers the WAFT meta-assembler, board simulator and a library of tools for maximum performance.

SCIENTIFIC LIBRARY.

The AP-2000 family of array processors is 100 % compatible with the Math Advantage Library from Quantitiative Technology Corp. (Portland, Oregon). This library includes over 250 microcoded scientific and engineering subroutines that make full use of the AP-2000's floating point capabilities.

The QTC Math Advantage is designed to allow customization for specific applications without the necessity of tedious hand-coding of basic algorithms.

REAL-TIME GRAPHICS SYSTEMS.

The AP-2020 is an integral part of the FALCON-PC Graphics System. The FALCON-PC consists of the PG-2000 Graphics Board, the AP-2020, a 19" color monitor and XTAR's 3DView III software toolset.

The FALCON-PC is used in a wide variety of military and industrial applications, including part-task training, mission planning, simulation, seismic analysis, animation, image and signal processing and many others.

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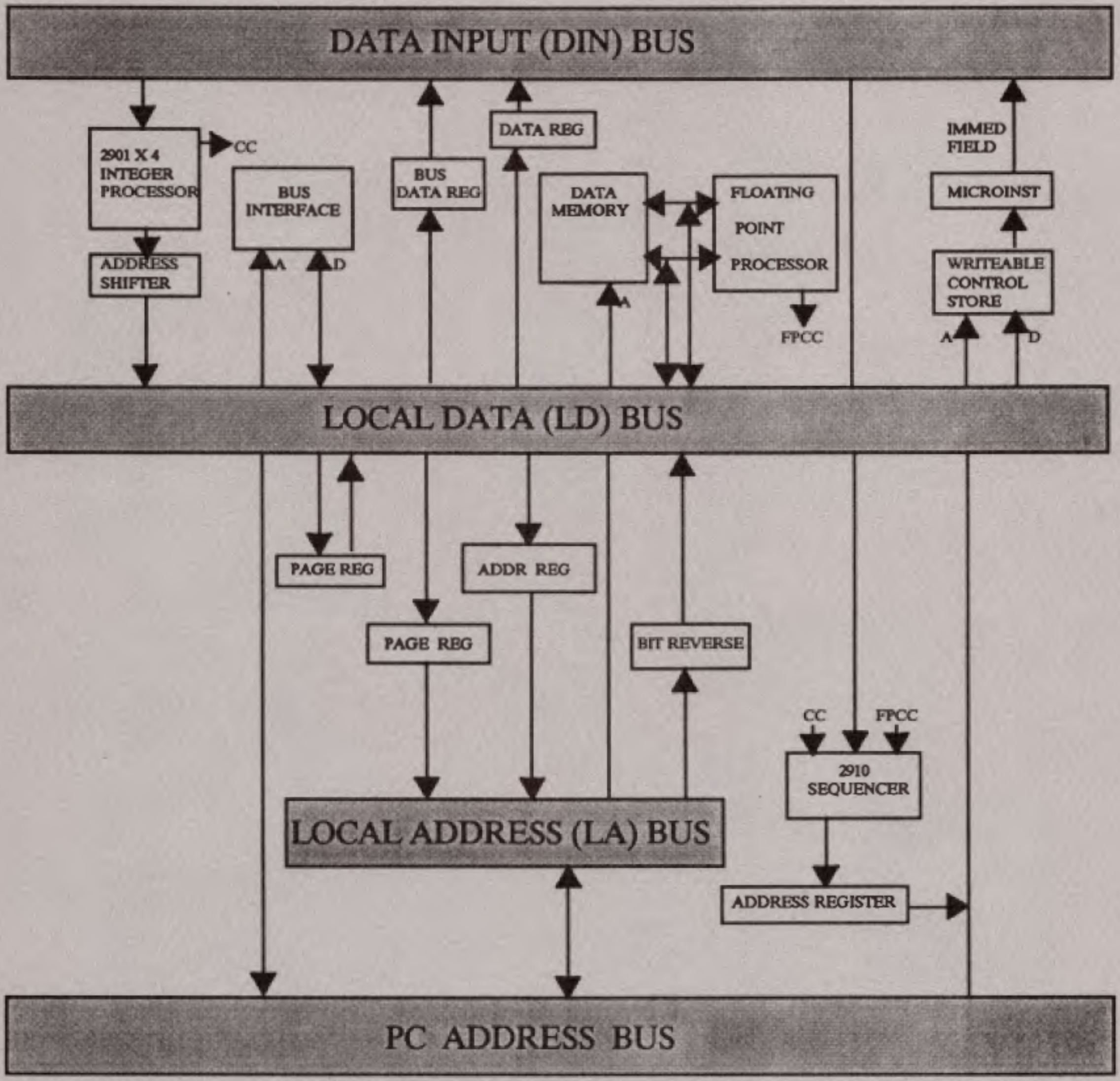

Array Processor Block Diagram

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